

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

10/509644

(19) World Intellectual Property Organization
International Bureau



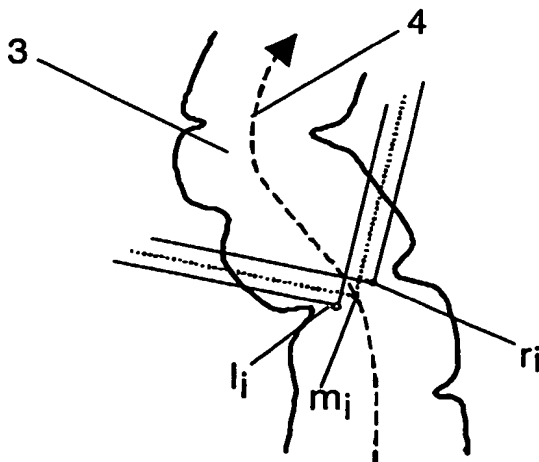
(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/083781 A1

- (51) International Patent Classification⁷: G06T 15/00, G09B 23/28, A61B 19/00
- (21) International Application Number: PCT/IB03/01216
- (22) International Filing Date: 26 March 2003 (26.03.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 02076296.9 29 March 2002 (29.03.2002) EP
- (71) Applicant (for all designated States except US): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): LOBREGT, Steven [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: COHEN, Julius, S.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD, SYSTEM AND COMPUTER PROGRAM FOR STEREOSCOPIC VIEWING OF 3D MEDICAL IMAGES



(57) Abstract: The invention concerns a method of visualising an internal hollow organ (3) of a subject based on a volumetric scan thereof. A number of three-dimensional images of the internal surface of the hollow organ are reconstructed. For each image an image (L_i) is calculated for the left eye from a first view point l_i . Next an image for the right eye (R_i) is calculated from a second view point r_i that differs from the first view point. The left eye image and the right eye image are combined into a pair (L_i, R_i) to form a stereoscopic image that is shown using stereoscopic imager means. The invention also refers to a system and a computer program to carry out the method according to the invention.

WO 03/083781 A1